

ELECTRICIAN

General Statement of Duties: Performs highly skilled electrical work in the maintenance and repair of specialized machinery in a treatment plant or pumping station; does related work as required.

Distinguishing Features of the Class: An employee of this class is responsible for maintaining electrical equipment at the treatment plant and pump stations. Work is performed under general supervision and requires employee to exercise independent judgement. Employee may supervise a small crew of laborers on special assignments.

Examples of Work: (Illustrative Only)

- Performs routine maintenance of the telemetry system;
- Runs Cathodic Protection tests on the system and install cathodic equipment as needed;
- Removes, cleans and installs motors; repairs and replaces parts, as needed;
- Performs electrical checks and troubleshoots fans and heaters, replacing parts and cleaning as necessary;
- Installs and repairs lighting fixtures and connections;
- Performs necessary preventative maintenance of all electrical equipment;
- Locates and retrieves parts as needed;
- Studies electrical blueprints, manuals and files for reference;
- Maintains required records;
- Checks control panels and replaces relays, switches, and other parts;
- Changes circuit breakers and works with stab assemblies on bus bar;
- Operates portable multi-gas monitor in order to detect gases;
- Repairs wiring, relays and switches on pump controls;
- Trains and supervises the work of assistant;
- Performs related duties as directed or as the situation dictates;
- Works in coordination with the Electronics Tech on projects as needed.

Required Knowledge, Skills and Abilities: Thorough knowledge of standard practices, methods, tools, terminology, and materials of the electrical trade; considerable knowledge of electrical theory; ability to detect and work with high voltage in a safe manner; ability to repair complicated electrical wiring fixtures and equipment; ability to work from sketches and blueprints; ability to understand and carry out difficult oral and written instructions; knowledge and ability to maintain effective working relationship with the general public and co-workers; skill in the use and care of equipment and tools used in electrical trade; ability to work in unpleasant work conditions, i.e. temperature extremes, unpleasant odors, noise, dust, heights, underground, and exposure to sewage; good physical condition.

Acceptable Experience and Training: Any combination of experience and training, which provides the necessary knowledge, skills, and abilities. Requires a City of Council Bluffs Journeyman Electrician's License. Must have a valid Iowa driver's license.

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